**GENERAL MATHEMATICS**

**For Class-IX (75 Marks)**

**1. PERCENTAGE, RATIO AND PROPORTION**

1.1 Percentage

1.2 Ratio

1.3 Proportion

1.4 Compound Proportion

**2. ZAKAT, USHR AND INHERITANCE**

2.1 Zakat

2.2 Ushr

2.3 Inheritance

**3. BUSINESS MATHEMATICS**

3.1 Profit and Loss

3.2 Discount

3.3 Business Partnership

**4. FINANCIAL MATHEMATICS**

4.1 Commercial Banking

4.2 Exchange of Currencies

4.3 Profit/Markup

4.4 Insurance

4.5 Leasing/Financing

**5. CONSUMER MATHEMATICS**

5.1 Taxes

5.2 Utility Bills

5.3 Personal Income

**6. EXPONENTS AND LOGARITHMS**

6.1 Radicals and Radicands

6.2 Laws of Exponents/indices

6.3 Scientific Notation

6.4 Logarithm

6.5 Laws of Logarithm

6.6 Application of Logarithm

**7. ARITHMETIC AND GEOMETRIC SEQUENCES**

7.1 Sequence

7.2 Arithmetic Sequence

7.3 Arithmetic Mean

7.4 Geometric Sequence

7.5 Geometric Mean

**8. SETS AND FUNCTIONS**

8.1 Set

8.1.1 Operations on Sets

8.1.2 Properties of Union and intersection

8.1.3 Venn Diagram

8.2 Binary Relation

8.3 Function

**9. LINEAR GRAPHS**

9.1 Cartesian Plane and Linear Graphs

9.2 Conversion Graphs

**10. BASIC STATISTICS**

10.1 Frequency Distribution

10.2 Cumulative Frequency

10.3 Measure of Central Tendency

10.4 Measures of Dispersion